# BOWLING

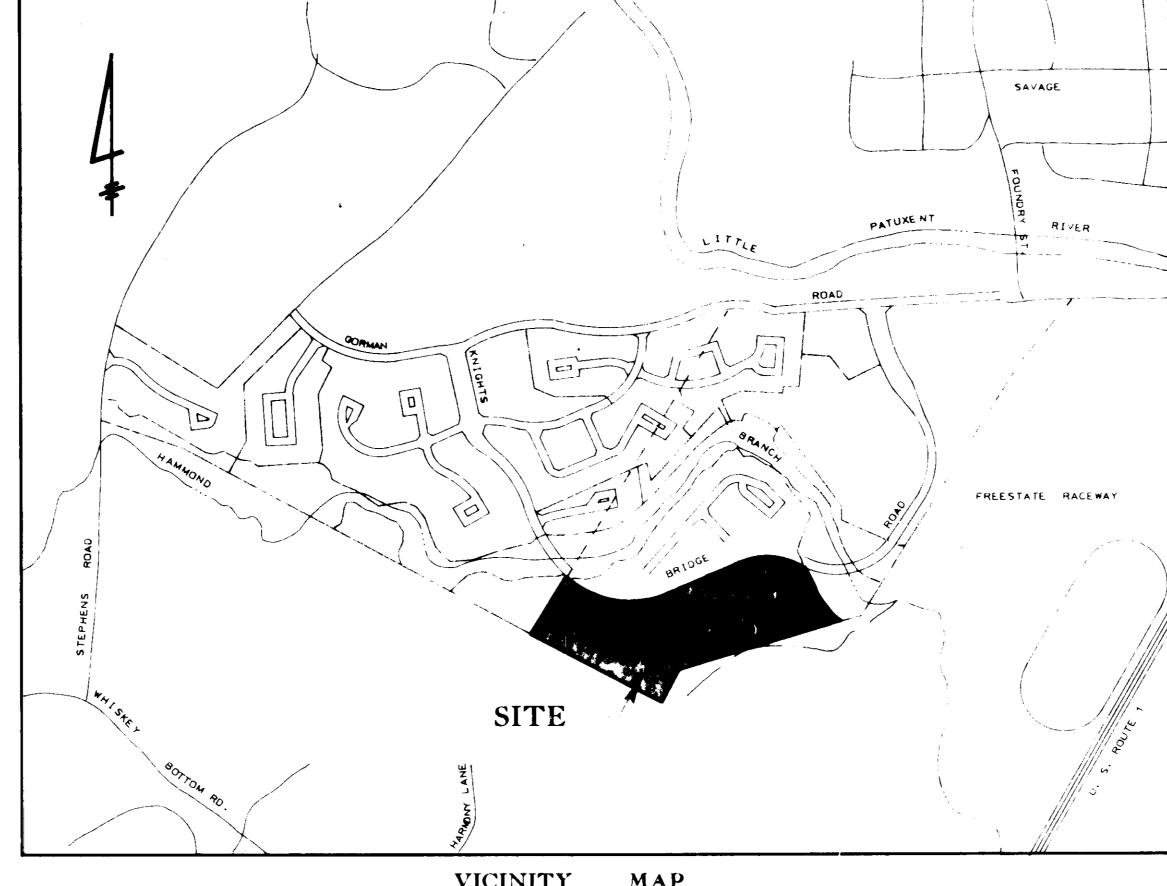
# BROOK

# FARMS

# PARCEL 'C'

### SHEET INDEX

- 1. TITLE SHEET
- 2. MASS GRADING SEDIMENT CONTROL
- 3. MASS GRADING SEDIMENT CONTROL
- 4. SEDIMENT BASIN +1 PROFILES & DETAILS
- 5. SEDIMENT BASIN •2 PROFILES & DETAILS
- 6. SEDIMENT BASIN SPECIFICATIONS & DETAILS
- 7. SEDIMENT CONTROL NOTES & DETAILS
- 8. EXISTING DRAINAGE AREA MAP
- 9. PROPOSED DRAINAGE AREA MAP



VICINITY MAP SCALB: 1" = 600'

## SITE DEVELOPMENT PLAN

**ELECTION** DISTRICT SIXTH HOWARD COUNTY, MARYLAND

### GENERAL NOTES

- 1. TOTAL AREA OF PARCEL: 20.19 AC+
- 2. PRESENT ZONING: RSA-8
- 3. EXISTING USE: WOODS
- 4. PROPOSED USE: MASS GRADING FOR FUTURE TOWNHOMES
- 5. TOPOGRAPHY SHOWN BASED ON FIELD SURVEY BY HARRIS, SMARIGA, MATZ, INC. DATED NOVEMBER, 1991.
- 6. WETLANDS AND FLOODPLAIN SHOWN HEREIN WERE DELINEATED BY OTHERS AND RECORDED ON THE PLATS OF BOWLING BROOK FARM: 10094-
- 7. THERE ARE NO EXISTING BUILDINGS, STRUCTURES, HISTORIC STRUCTURES OR CEMETERIES ON THE SITE. THE SITE DOES CONTAIN ENVIRON-MENTALLY SENSITIVE AREAS INCL. WETLANDS WETLAND BUFFERS, STREAMBANK BUFFERS AND STEEP SLOPES.
- 8. SEE DEPARTMENT OF PLANNING AND ZONING FILE S-92-12 and WP-92-117.
- 9. NO ROOTS, STUMPS AND DEBRIS SHALL BE PLACED IN ANY FILL AREAS SHOWN HEREIN.
- 10. GEOTECHNICAL REPORTS SHALL BE PROVIDED ON ALL CONTROLLED FILL AREAS DESIGNATED FOR FUTURE ROADS.
- 11. ALL FUTURE ROAD RIGHTS-OF-WAY WILL BE STAKED IN THE FIELD PRIOR TO ANY WORK IN THOSE AREAS.
- 12. IN AREA WHERE EXCAVATION IS NEEDED WITHIN THE ROAD RIGHT-OR-WAY, EXCAVATION MUST BE MADE WITHIN 1 FOOT OF THE FINAL SUBGRADE.
- 13. WHERE FILL IS PROPOSED WITHIN THE ROAD RIGHT-OF-WAY, THE FILL SHALL BE A MINIMUM OF 2 FEET BELOW THE FINAL ROAD SUBGRADE.

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL FOND CONSTRUCTION, SOIL EROSIDN AND SEDIMENT CONTROL.
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EDOSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT  HOWARD SOIL CONSERVATION DISTRICT  DATE
HARRIS, SMARIGA, MATZ, INC  PLANNERS / ENGINEERS / SURVEYORS  104 CHURCH LANE, SUITE 100  BALTIMORE, MARYLAND, 212011

(301)-486-1511

ADDRESS CHART		DESIGNED DM	BOWLING BROOK FARMS		
LOT NUMBER STREET ADDRESS		DRAWN CADD/ SB			
		CHECKED DM			JOB NO 40554
		DATE G 17/92		CTION DISTRICT DUNTY, MARYLAND	FILE N
		م ن	OWNER MES F KNOTT DEVE 110 WEST ROA		ON
LATE	REVISION	TOWSON, MARYLAND 21204 (410) 321-1000			
		SUBDIVISION NAME BOWLING BROOKS FARMS		SECT / AREA	LOT/PARTÉL PARCE
		PLAT • OF	R L/F BLOCK . ZONE RSA-8	TAX/ZONE MAP ELEC. DE 47 6TH	i
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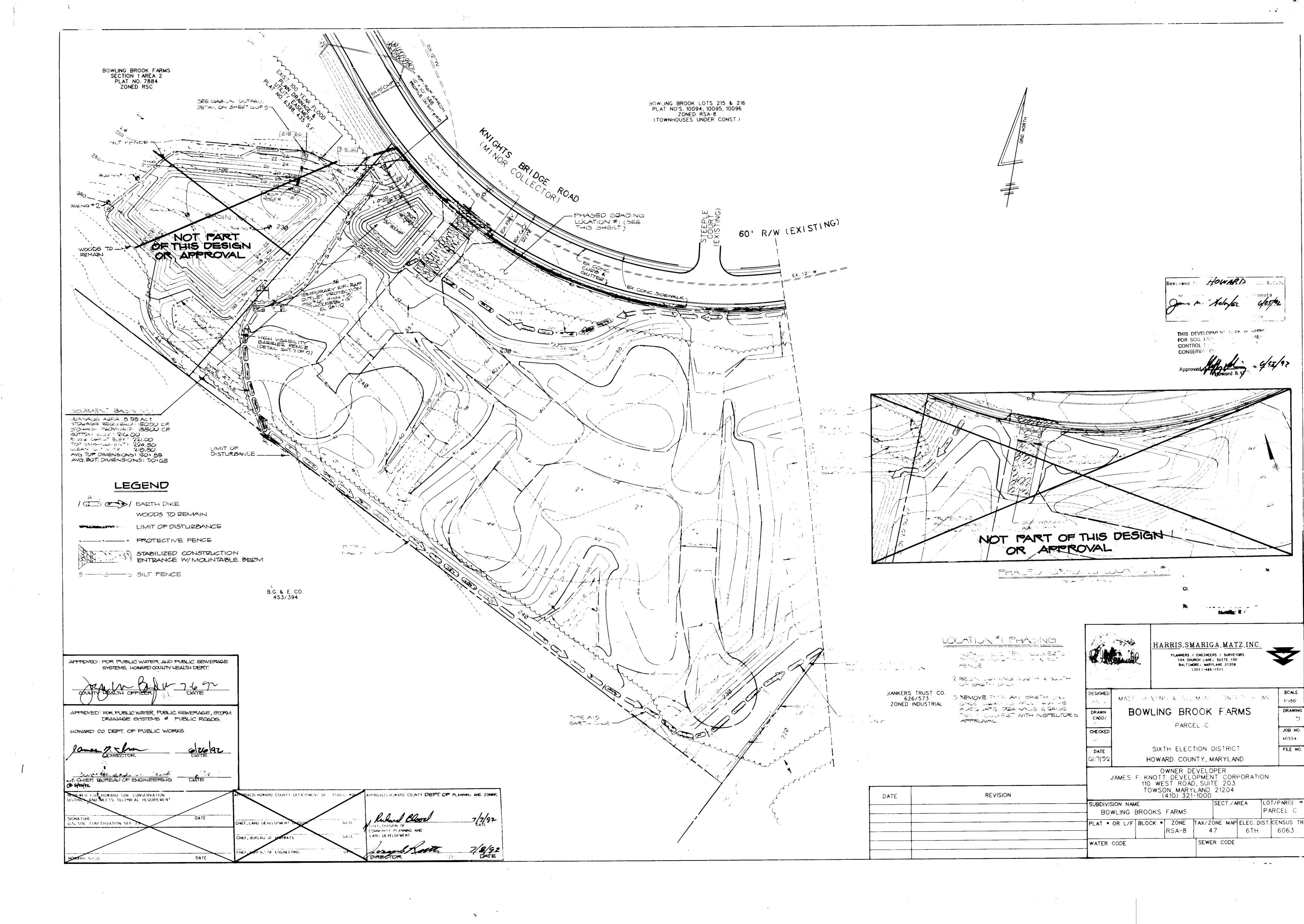
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM APPROVEDI HOWARD COUNTY DEPT, OF PLANNING AND ZONIN CHIEF, BUREAU OF HOM

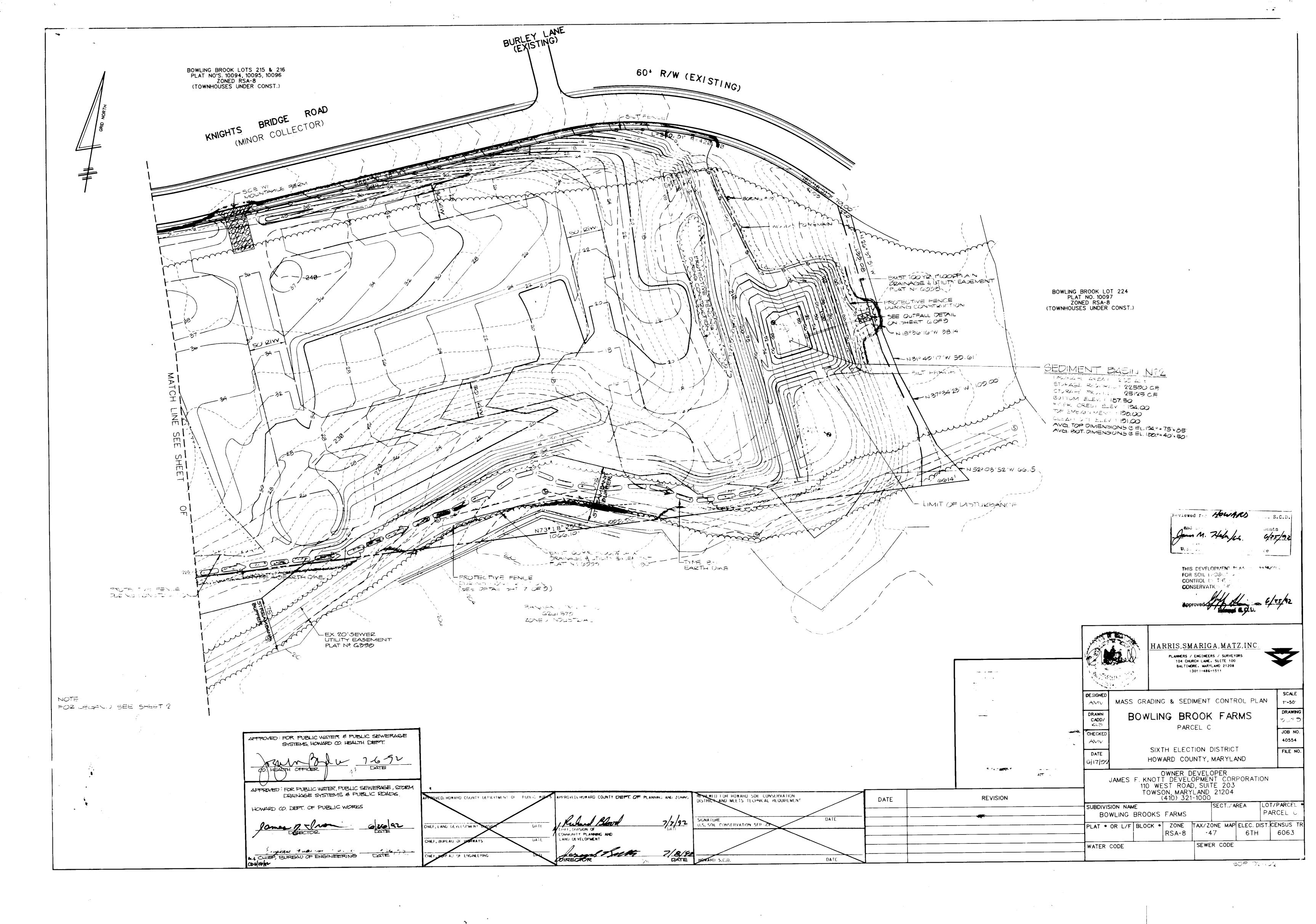
DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

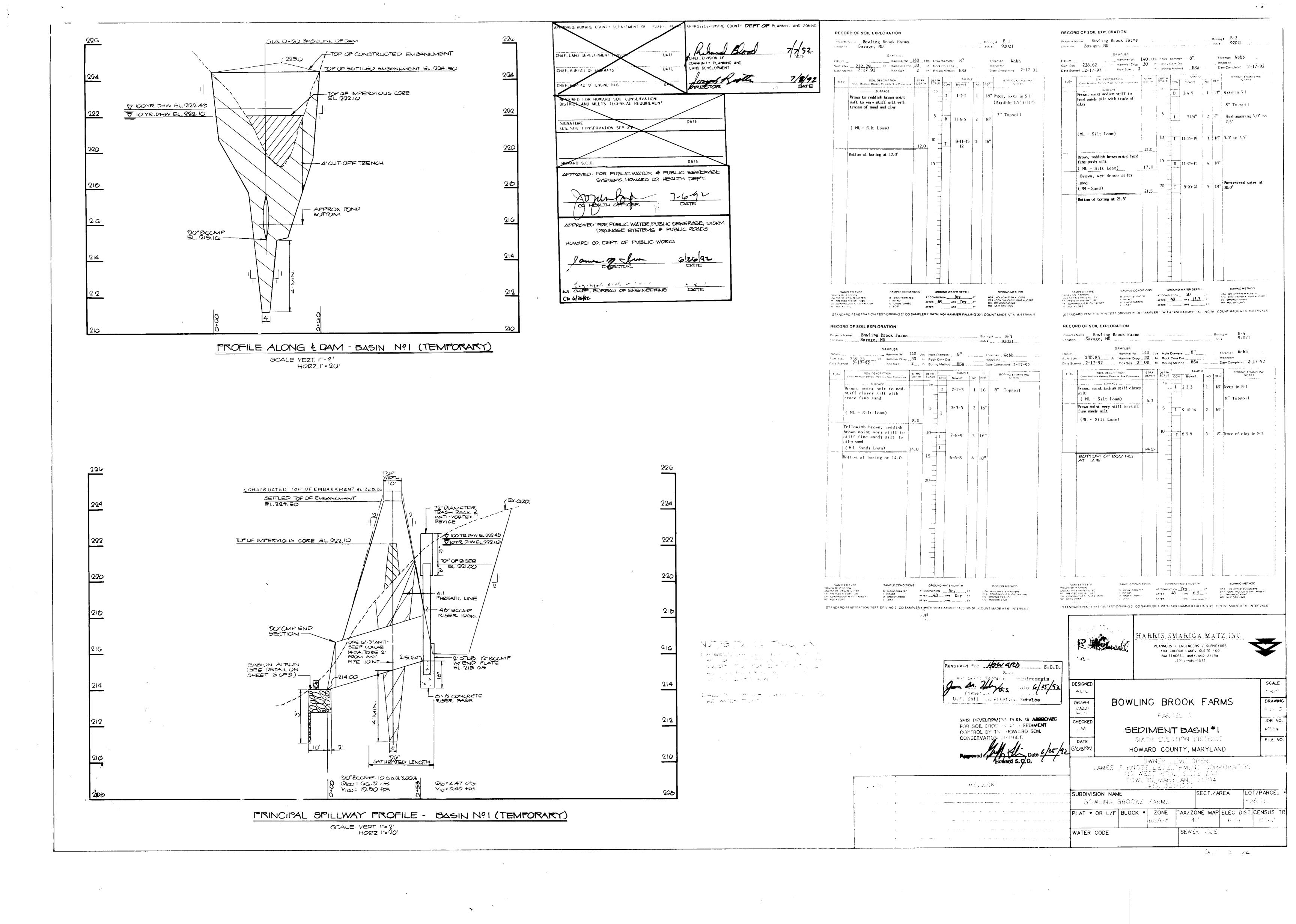
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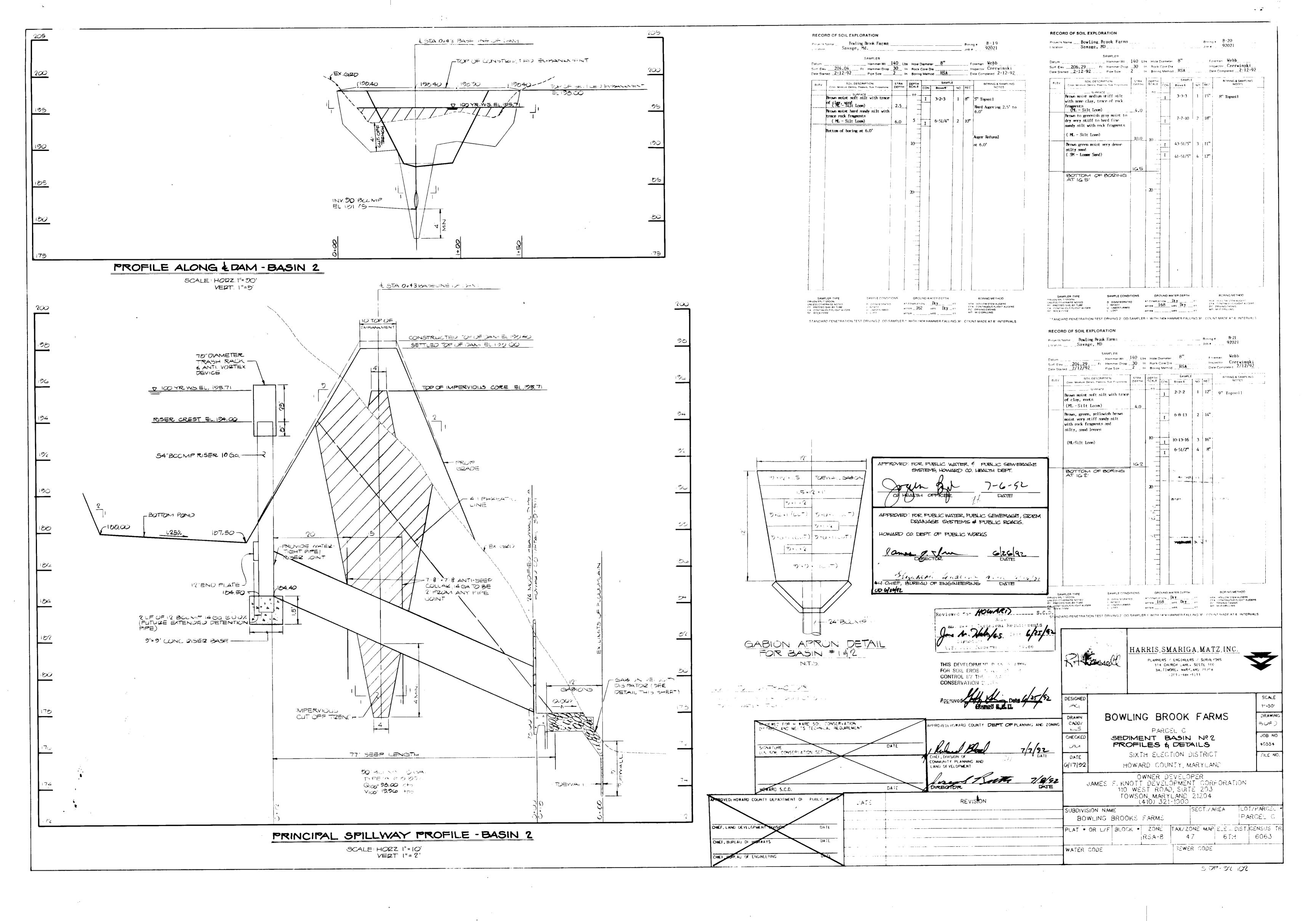
SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

REVISION # 1: G/18/92 · REV. BASIN SIZES & LOCATION ON SHEETS 2.0.415 ... 49.









#### STORWWATER MANAGEMENT POND CONSTRUCTION SPECIFICATIONS

THESE SPECIFICATIONS ARE APPROPRIATE TO ALL PONDS WITHIN THE SCOPE OF THE STANDARD FOR PRACTICE MD-378. ALL REFERENCES TO ASTM AND AASHTO SPECIFICATIONS APPLY TO THE MOST RECENT VERSION.

#### SITE PREPARATION

AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. CHANNEL BANKS AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN

AREAS TO BE COVERED BY THE RESERVOIR WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCES. RUBBISH AND OTHER OBJECTIONABLE MATERIAL UNLESS OTHERWISE DESIGNATED ON THE PLANS. TREES, BRUSH AND STUMPS SHALL BE CUT APPROXIMATELY LEVEL WITH THE GROUND SURFACE, FOR DRY STORMWATER MANAGEMENT PONDS, A MINIMUM OF A 50 FOOT RADIUS AROUND THE INLET STRUCTURE SHALL BE CLEARED.

ALL CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF OUTSIDE AND BELOW THE LIMITS OF THE DAM AND RESERVOIR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE, WHEN SPECIFIED, A SUFFICIENT QUANTITY OF TOPSOIL WILL BE STOCKPILED IN A SUITABLE LOCATION FOR USE ON THE EMBANKMENT AND OTHER DESIGNATED AREAS.

#### II. EARTH FILLS

MATERIAL - THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6", FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT AND CUT OFF TRENCH SHAL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH OR CL. CONSIDERATION MAY BE GIVEN TO THE USE OF OTHER MATERIALS IN THE EMBANKMENT IF DESIGN AND CONSTRUCTION ARE SUPERVISED BY A GEOTECHNICAL ENGINEER.

PLACEMENT - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8 INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT

COMPACTION - THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF THE EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER TIRED OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT.

WHERE A MINIMUM REQUIRED DENSITY IS SPECIFIED, IT SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN + 2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION, ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99.

CUT CFF TRENCH - THE CUTOFF TRENCH SHALL BE EXCAVATED INTO IMPERVIOUS MATERIAL ALONG OR PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE BOTTOM WIDTH OF THE TRENCH SHALL BE GOVERNED BY THE EQUIPMENT USED FOR EXCAVATION, WITH THE MINIMUM WIDTH BEING FOUR FEET. THE DEPTH SHALL BE AT LEAST \*\* \* \*\* FOUR FEET BELOW EXISTING GRADE OR AS SHOWN ON THE PLANS. THE SIDE SLOPES OF THE TRENCH SHALL BE 1 TO 1 OR FLATTER. THE BACKFILL SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS, OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY.

#### HIL STRUCTURE BACKFILL

BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE, UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE UNLESS THERE IS A COMPACTED FILL OF 24" OR GREATER OVER THE STRUCTURE OR PIPE.

IV. PIPE CONDUITS

ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.

#### A. <u>CORRUGATED METAL PIPE</u> - ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR CORRUGATED METAL PIPE:

1. MATERIALS - (STEEL PIPE) - THIS PIPE AND ITS APPURTENANCES SHALL BE GALVANIZED AND FULLY BITUMINOUS COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-190 TYPE A WITH WATERTIGHT COUPLING BANDS, ANY BITUMINOUS COATING DAMAGED OR OTHERWISE REMOVED SHALL BE REPLACED WITH COLD APPLIED BITUMINOUS COATING COMPOUND. STEEL PIPES WITH POLYMERIC COATINGS SHALL HAVE A MINIMUM COATING THICKNESS OF 0.01 INCH (10 MIL) ON BOTH SIDES OF THE PIPE. THE FULLOWING COATINGS OR AN APPROVED EQUAL MAY BE USED: NEXON, PLASTI-COTE. BLAC-KLAD, AND BETH-CU-LOY, COATED CORRUGATED STEEL PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M-245 AND M-

MATERIALS - (ALUMINUM COATED STEEL PIPE) - THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-274 WITH WATERTIGHT COUPLING BANDS OR FLANGES. ANY ALUMINUM COATING DAMAGED OR OTHERWISE REMOVED SHALL BE REPLACED WITH COLD APPLIED BITUMINOUS COATING COMPOUND.

MATERIALS - (ALUMINUM PIPE) - THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-196 OR M-211 WITH WATERTIGHT COUPLING BANDS OR FLANGES. ALUMINUM SURFACES THAT ARE TO BE IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH ONE COAT OF ZINC CHROMATE PRIMER. HOT DIP GALVANIZED BOLTS MAY BE USED FOR CONNECTIONS. THE PH OF THE SURROUNDING SOILS SHALL BE BETWEEN 4 AND 9.

2. COUPLING BANDS, ANTI-SEEP COLLARS, END SECTIONS, ETC., MUST BE COMPOSED OF THE SAME MATERIAL AS THE PIPE, METALS MUST BE INSULATED FROM DISSIMILAR MATERIALS WITH USE OF RUBBER OR PLASTIC INSULATING MATERIALS AT LEAST 24 MILS IN THICKNESS.

3. CONNECTIONS - ALL CONNECTIONS WITH PIPES MUST BE COMPLETELY WATERTIGHT. THE DRAIN PIPE OR BARREL CONNECTION TO THE RISER SHALL BE WELDED ALL AROUND WHEN THE PIPE AND RISER ARE METAL. ANTI-SEEP COLLARS SHALL BE CONNECTED TO THE PIPE IN SUCH A MANNER AS TO BE COMPLETELY WATERTIGHT. DIMPLE BANDS ARE NOT CONSIDERED TO BE WATERTIGHT.

ALL CONNECTIONS SHALL USE A RUBBER OR NEOPRENE GASKET WHEN JOINING PIPE SECTIONS. THE END OF EACH PIPE SHALL BE RE-ROLLED AN ADEQUATE NUMBER OF CORRUGATIONS TO ACCOMMODATE THE BAND WIDTH. THE FOLLOWING TYPE CONNECTIONS ARE ACCEPTABLE FOR PIPES LESS THAN 48" IN DIAMETER: FLANGES ON BOTH ENDS OF THE PIPE, A 12" WIDE STANDARD LAP TYPE BAND WITH 12" WIDE BY 3/8" THICK CLOSED CELL CIRCULAR NEOPRENE GASKET; AND A 12" WIDE HUGGER TYPE BAND WITH O-RING GASKETS HAVING A MINIMUM DIAMETER OF 1/2" GREATER THAN THE CORRUGATION DEPTH. PIPES 48" IN DIAMETER AND LARGER SHALL BE CONNECTED BY A 24" LONG ANNULAR CORRUGATED BAND USING RODS AND LUGS. A 12" WIDE BY 3/8" THICK CLOSED CELL CIRCULAR NEOPRENE GASKET WILL BE INSTALLED ON THE END OF EACH PIPE FOR A TOTAL OF 24" HELICALLY CORRUGATED PIPE SHALL HAVE EITHER CONTINUOUSLY WELDED SEAMS OR HAVE LOCK

4. BEDDING - THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.

5. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".

6. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS. V. <u>CONCRETE</u>

CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION. STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 608, MIX NO. 3. REINFORCING STEEL MUST BE ASTM A615. GRADE 60. STEEL ANGLES AND ANCHOR BARS MUST BE ASTM A36.

#### VI. ROCK RIPRAP

ALL ROCK SHALL BE DENSE, SOUND, AND FREE FROM CRACKS, SEAMS, AND OTHER DEFECTS CONDUCIVE TO ACCELERATED WEATHERING. THE ROCK FRAGMENTS SHALL BE ANGULAR TO SUBROUNDED IN SHAPE. THE LEAST DIMENSION OF AN INDIVIDUAL ROCK FRAGMENT SHALL BE NOT LESS THAN ONE-THIRD THE GREATEST DIMENSION OF THE FRAGMENT.

THE ROCK SHALL HAVE THE FOLLOWING PROPERTIES:

1. BULK SPECIFIC GRAVITY (SATURATED) SURFACE-DRY BASIS) NOT LESS THAN 25 2. ABSORPTION NOT MORE THAN THREE

3. SOUNDNESS: WEIGHT LOSS IN FIVE CYCLES NOT MORE THAN 20 PERCENT WHEN SODIUM SULFATE IS USED.

BULK SPECIFIC GRAVITY AND ABSORPTION SHALL BE DETERMINED ACCORDING TO ASTM C 127. THE TEST FOR SOUNDNESS SHALL BE PERFORMED ACCORDING TO ASTM C 88.

THE RIPRAP SHALL BE PLACED TO THE RECMIRED THICKNESS IN ONE OPERATION. THE ROCK SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL INSURE THE RIPRAP IN PLACE SHALL BE REASONABLY HOMOGENEOUS WITH THE LARGER ROCKS UNIFORMLY DISTRIBUTED AND FIRMLY IN CONTACT ONE TO ANOTHER WITH THE SMALLER ROCKS FILLING THE VOIDS BETWEEN THE LARGER ROCKS. FILTER CLOTH SHALL BE PLACED UNDER ALL RIPRAP AND SHALL MEET THE REQUIREMENTS OR MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 919.12.

#### VII. CARE OF WATER DURING CONSTRUCTION

ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS. THE CONTRACTOR SHALL ALSO FURNISH, INSTALL OPERATE, AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM THE VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION, AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER FOR CONSTRUCTING EACH PART OF THE WORK, AFTER HAVING SERVED THEIR PURPOSE, ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DEGREE WHATSOEVER OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. STREAM DIVERSIONS SHALL BE MAINTAINED UNTIL THE FULL FLOW CAN BE PASSED THROUGH THE PERMANENT WORKS, THE REMOVAL OF THE WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND BOTTOM OF REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION QPERATIONS. DURING THE PLACING AND COMPACTING OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL AT THE LOCATIONS BEING REFILLED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS WHICH MAY REQUIRE DRAINING THE WATER TO SUMPS FROM WHICH THE WATER SHALL BE PUMPED.

#### VIII. STABILIZATION

ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SIGHTLY CONDITION, ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING IN ACCORDANCE WITH THE MARYLAND SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA PLANTING (MD-342) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

#### IX. EROSION AND SEDIMENT CONTROL

CONSTRUCTION OPERATIONS WILL BE CARRED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED AND WATER AND AIR POLLUTION MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES TO BE EMPLOYED DURING THE CONSTRUCTION PROCESS.

#### X. FENCE AND GATE (42 NCH HEIGHT) (IF REQUIRED)

CONSTRUCT FENCING IN ACCORDANCE WITH THE STATE HIGHWAY ADMINISTRATION STANDARD DETAILS 690.01 AND 690 1/2 USE SPECIFICATIONS FOR A 6-FOOT FENCE, SUBSTITUTING 42-INCH FABRIC AND 6 FOOT 8 INCH LINE POSTS CONSTRUCT THE GATE IN ACCORDANCE WITH STATE HIGHWAY ADMINISTRATION STANDARD DETAIL 692.01 WITH 42-INCH FABRIC. THE FABRIC USED FOR THE FENCE AND GATE MUST CONFORM TO AASHTO DESIGNATION M 181.74.

A MINIMUM ACCESS GATE OF 18 FEET SHALL BE PROVIDED WHEN ACCESS IS PERPENDICULAR TO THE GATE. A 24-FOOT GATE SHALL BE PROVIDED WHEN ACCESS IS SKEWED.

#### XI. FILTER CLOTH

FILTER CLOTH SHALL BE MIRAFI1405 REEMAY TYPAR \*3341 OR APPROVED EQUAL.

### XII GABIONS

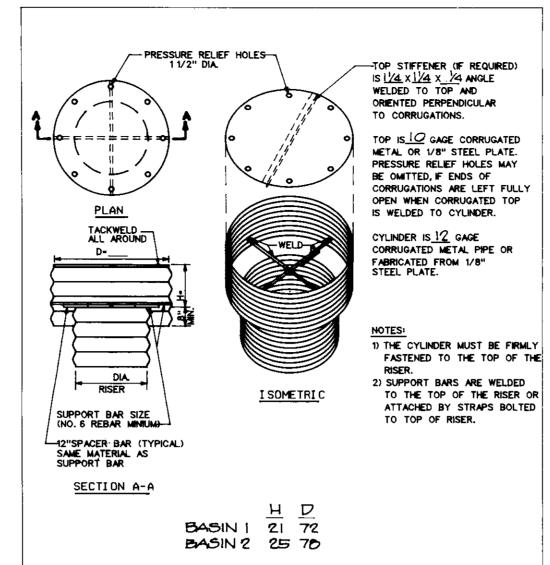
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#### CONTRACTOR'S NOTES

THE CONSTRUCTION SHOWN HEREON MUST BE CERTIFIED TO THE HOWARD COUNTY SOIL CON-GERVATION DISTRICT.

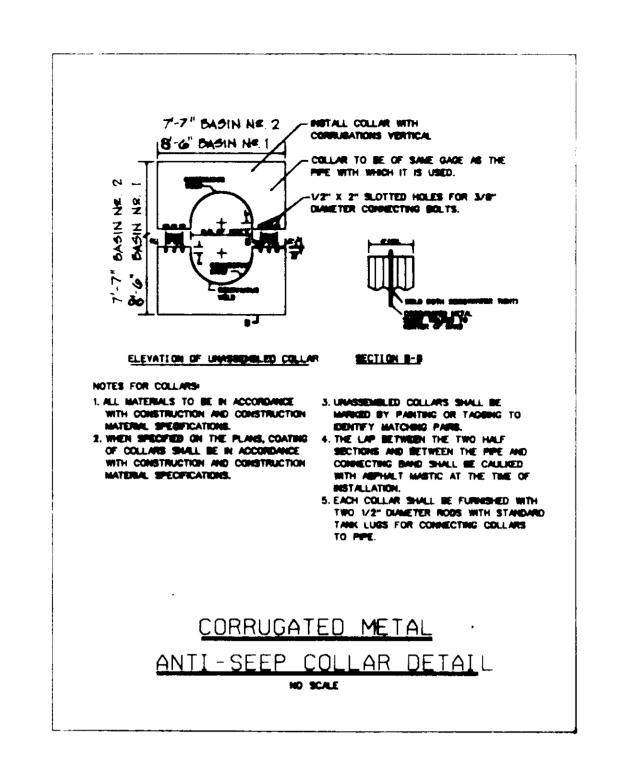
A REGISTERED PROFESSIONAL ENGINEER MUST BE NOTIFIED SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT HE CAN ARRANGE

- 1. INSPECTION OF THE PIPE TRENCH AND BEDDING. 2. INSPECTION OF THE PIPE RISER AND ANTI-SEEP COLLARS.
- 3. SUPERVISION OF EMBANKMENT CONSTRUCTION AND COMPACTION TESTING.
- 4. INSTALLATION OF ACCESS ROAD. 5. OTHER STRUCTURES AND DRAINAGE FEATURES.

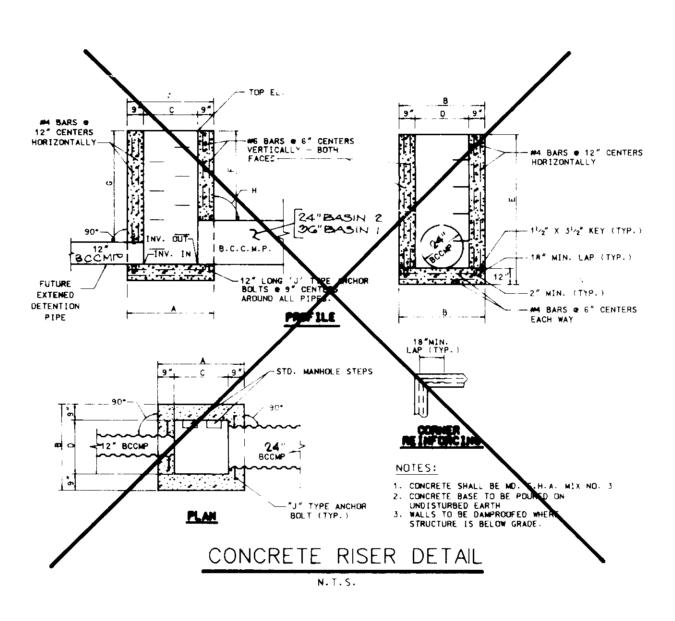


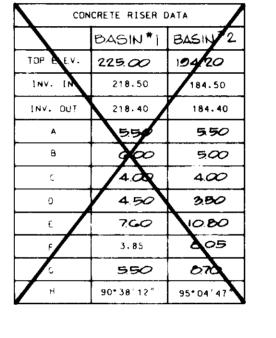
NO SCALE

OF STEPS TO BE CENTERED SEE FASTENING DETAIL 2"X2"X3/16" ALL SIDES -THE BULTS OF NON-REMOVABLE OR WELD RACK TO ANGLE USE 1/2" WHICHOR BOLTS TO FASTEN FASTENING DETAIL CONCENTRIC TRASH RACK AND <u> RASH RACK DETAIL FOR</u> ANTI-VORTEX DEVICE RECTANGULAR CONCRETE RISER



Review For HOWARD





DATE

NOTE, CONTRACTOR SHALL

FIT OF TRACK RACK.

AFTER FARRICATION

FELD MEASURE THE STI

DIMENSIONS TO INSURE BRACT

GALVANIZE ENTIRE ATRACK

PROVIDE STANDARD MANGLE STEPS (B.G.B.E. STD. PLATE G-4)

ON INSIDE FACE OF WALL.

THIS DEVELOPMENT P OR IS APPRO FOR SOIL FREE A MINER CONTROL APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE CONSER! -SYSTEMS, HOWARD CO. HEALTH DEPT. PRIVEWED FOR HORARD SOIL CONSERVATION DESTRUCT AND MEETS TECHNICAL REQUIREMENT APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS. HOWARD CO. DEPT. OF PUBLIC WORKS U.S. SOIL CONSEPTATION SEF WOWARD S.C.D. CHIEF, BUREAU OF ENGINEERING HARRIS, SMARIGA, MATZ, INC. PROVED HOWARD COUNTY DEPARTMENT OF PUBLIC 19 PLANNERS / ENGINEERS / SURVEYORS 104 CHURCH LAME, SUITE 100 BALTIMORE: MARYLAND 21208 (301)-486-1511 CHEF, LAND LEVEL UPMENT CHIEF, BUREAU OF MICE AMV CHIEF HOREAU OF ENGINEERING BOWLING BROOK FARMS DRAWN CADD/ PPROVEDI HOWARD COUNTY DEPT. OF PLANNING AND ZONING PARCEL C CHECKED SEDIMENT BASIN DM SPECIFICATIONS & DETAILS SIXTH ELECTION DISTRICT CHIEF, DIVISION OF DATE COLUMNITY PLANNING AND HOWARD COUNTY, MARYLAND LAND DEVELOPMENT OWNER DEVELOPER KNOTT DEVELOPMENT CORPORATION 110 WEST ROAD, SUITE 203 TOWSON, MARYLAND 21204 (410) 321-1000 REVISION

SUBDIVISION NAME

WATER CODE

BOWLING BROOKS FARMS

HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS "ONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE PROVED PLANS AND SPECIFICATIONS.

9

"AS-BUILT" CERTIFICATION

#### CONSULTANT'S HAZARD CLASS CERTIFICATION

"I certify that this pand meets all requirements for hazard class 🛕 (AB,orC). [Requirements as stated in the SOIL CONSERVATION SERVICE-MARYLAND STANDARDS, AND SPECIFICATIONS FOR POND, CODE 378, JANUARY 1991.] All necessary investigations putations have been performed to verify this finding. A copy of said information has wearn supplied to

Signature: Dansud H (000 ) Md. License No. 12477 Date 4 29 92 Print Name: RICHARD H. CASSELL

SDP 92-102

6TH

SECT./AREA

PLAT . OR L/F BLOCK . ZONE TAX/ZONE MAP ELEC. DIST. CENSUS TR

47

SEWER CODE

RSA-8

DATE

SCALE

1"-50"

DRIWING

o OF D

JOB NO.

40554

FILE NO.

LOT/PARCEL

PARCEL C

6063

#### STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

#### SPECIFICATIONS

- I. CLASS OF TUREGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD. 2. SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING, MEASUREMENT FOR THICKNESS
- SHALL EXCLUDE TOP GROWTH AND THATCH. STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
- 4. INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIERS WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS HALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE
- 5. SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL. 6. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE INSPECTED AND

#### I. SITE PREPARATION

APPROVED PRIOR TO ITS INSTALLATION.

- FERTILIZER AND LIME APPLICATION RATES SHALL BE DETERMINED BY SOIL TESTS, UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS INSUFFICIENT TIME FOR A COMPLETE SOIL TEST, FERTILIZER AND LIME MATERIALS MAY BE APPLIED IN AMOUNTS SHOWN UNDER B, BELOW.
- A. PRIOR TO SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR
- B. WHERE THE SOIL IS ACID OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 2 TONS/ACRE OR 100 POUNDS PER 1,000 SQUARE FEET. IN ALL SOILS 1,000 POUNDS PER ACRE OR 25 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 FERTILIZER OR EQUIVALENT SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL
- C. ALL AREAS RECEIVING SOD SHALL BE UNIFORMLY FINE GRADED.
  HARD-PACKED EARTH SHALL BE SCAREFIED PRIOR TO PLACEMENT OF SOD.

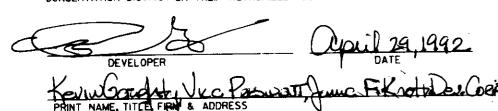
#### II. SOO INSTALLATION

- A. DURING PERIODS OF EXCESSIVELY HIGH TERMPERATURE THE SOIL SHALL BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING OF SOD.
- B. THE FIRST ROW OF SOO SHALL BE LAID IN A STRAIGHT LINE WITH SUBSECUENT ROWS PLACED PARALLEL TO AND TIGHTLY WEDGED AGAINST EACH OTHER, LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH, INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT YOURS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
- C. ON SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOD SHALL BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERED JOINTS. SECURE THE SOD BY TAMPING AND PEGGING OR OTHER APPROVED
- D. AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL
  BE JLED OR TAMPED TO INSURE SOLID CONTACT OF ROOTS WITH THE SOIL
  SURFACE, SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR
  TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE
  BELOW THE SOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING,
  TAMPING AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED

- A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE PERFORMED DAILY OR AS AFTEN AS NECESSARY DURING THE FIRST WEEK AND IN SUFFICIENT QUANTITIES TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES, WATERING SPOULD BE DONE DURING THE HEAT OF THE DAY TO
- B. AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE AND INSURE ESTABLISHMENT.
- C. FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF SHALL BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED.
- D. MAINTENANCE OF ESTABLISHED SOD SHOULD FOLLOW SPECIFICATIONS OUTLINED IN TABLE 54-1.

#### OWNERS/DEVELOPERS CERTIFICATION

I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDMENT AND EROSION BEFORE BEGINNING THE PROJECT. ALSO
THAT THE SITE WILL BE INSPICTED AT THE END OF EACH WORKING
DAY, AND THAT ANY NEEDED MAINTENANCE WILL BE COMPLETED SO AS O INSURE THAT ALL SEDIMENT CONTROL PRACTICES ARE LEFT IN OPERATIONAL CONDITION, I/WE AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS.



#### CONSULTANT'S CERTIFICATION

CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT THIS PLAN WAS PREFARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL". IHAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER.

REVISION

SIGNATURE: MD. LICENSE NO. 12427 NAME: RICHARD H. CASSELL DATE: 6/5/92

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits
- All vegetative and structural practices are to be intalled according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) Following intitial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3h, b) 14 days as to all other stability or readed areas on the project site. disturbed or graded areas on the project site.
- 4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Yol. I, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and estabdates do not allow for proper germination and estab-
- 6) All sediment control structures are to remain in place and are to be maintained in operative condition units permission for their removal has been obtained from the Howard County Sediment Control inspector.
- 7) Site Analysis: 17.60 Acrest Area to be roofed or paved — Acrest Area to be vegetatively stabilized 17.00 Acrest Total Cut 50230 Cut Yo.

  Total Fill 7,750 Cut yd Area Disturbed Offsite waste/borrow area location STOCKPILE ONSITE
- Any sediment control practice which is disturbed by grading activity for piacement of utilities must be repaired on the same day of disturbance. 9) Additional sediment controls must be provided if deemend necessary by the Howard County DPW sediment
- iii) On allisites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and additional across the control of the control and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized unfilthis initial approval by the inspection agency

#### TEMPORARY SEEDING NOTES

LOOSEN UPPER 3 INCHES BY DISCING, RAKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

#### APPLY 600 LBS. PER ACRE (14 LBS./1,000 SQ. FT.) OF 10-10-10 FERTILIZER.

SEEDING:
FOR PERIODS MARCH ITHRU APRIL 30, AND FROM AUGUST 15 THRU NOVEMBER 15,
SEED WITH 2 1/2 BU. PER ACRE OF ANNUAL RYE (3.2 LBS./1,000 SQ.FT.).
FOR THE PERIOD MAY 1, THRU AUG. 14, SEED WITH 3 LBS. PER ACRE OF WEEPING
LOVEGRASS (.07 LBS/1,000 SQ. FT.), FOR PERIOD NOV. 16 THRU FEB. 28 PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

APPLY 11/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ. FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 218 GALLONS PER ACRE (5 GALLONS/1,000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER USE 348 GALLONS PER ACRE (8 GALLONS/1,000 SQ. FT.) FOR ANCHORING.

#### PERMANENT SEEDING NOTES

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS: SEEDBED PREPARATION

LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE SOIL AMENDMENTS:

APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1,000 SQ. FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1,000 SQ. FT.). BEFORE SEEDING HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER. (9

SEEDING:
FOR THE PERIODS MARCH ITHRU APRIL 30, AND AUGUST ITHRU OCTOBER 15,
SEED WITH 60 LBS. PER ACRE (I.4 LBS./I,000 SQ. FT.) OF KENTUCKY 3I TALL
FESCUE. FOR THE PERIOD OF MAY ITHRU JULY 3I, SEED WITH 60 LBS.
KENTUCKY 3I TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.05 LBS./I,000
SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU
FEBRUARY 28, PROTECT SITE BY: OPTION (I) 2 TONS PER ACRE OF WELL
ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION
(2) USE SOD. OPTION (3) SEED WITH 60 LBS./ACRE KENTUCKY 3I TALL FESCUE
AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW. AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

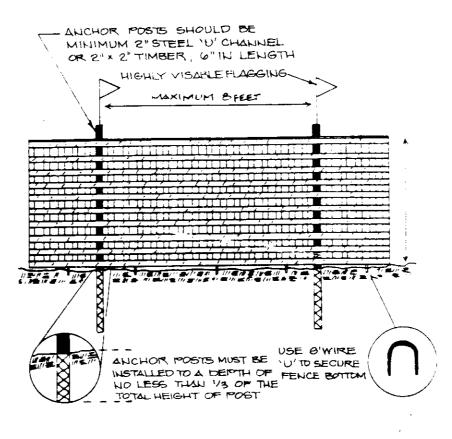
MULCHING:
APPLY 11/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ. FT.) OF UNROTTED AMPLT 11/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL./1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES OF 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR

## NSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS, AND

### GENERAL NOTES

- I. REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.
- 2. WITH THE APPROVAL OF SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
- 3. AT THE END OF EACH WORKING JAY ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
- 4, FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (A) SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO IVERTICAL (34) AND (B) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 5. ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRE RE-SUBMISSION TO HOWARD COUNTY SOIL CONSERV " IN DISTRIC" FOR
- 6. DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL', P.P. 62.01 AND 52 02 FOR ACCEPTABLE METERON NO SPECIFICATIONS FOR DUST CONTROL
- 7. ANY VARIATION FROM THE SEQUENCE OF OPERA . ( ED ON HIS PLAN SPECTOR AND THE REQUIRES THE APPROVAL OF THE SEDIMENT CONT HOWARD COUNTY SOIL CONSERVATION DISTRICT PE OF THE CHANGE.
- 8. ANY EXCESS OUT OR BORROW WE WILL BE TAKEN TO OR BROUGHT TH AN APPROVE SEUMENT CONTROL ON.
- 9. TOTAL AREA FRACT: 2019 Ac.+
- 10. TOTAL DISTURBED AREA: 9.10 Ac. +
- II. REFER TO "MARYLAND GUIDELINES TO WATERWAY CONSTRUCTION" BY THE WATER RESOURCES ADMINISTRATION (WRA), DATED JANUARY, 1986 FOR STANDARD UL S AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN FOR WATER AY

#### Blaze Orange Plastic Mesh Figure J-4



Forest profection device any FENCE TO BE SAVED. FENCE TO BE SAVED. Boundaries of Retention Area should be staked and flagged prior to installing device. Root damage should be avoided.

Protective signage may also be used.

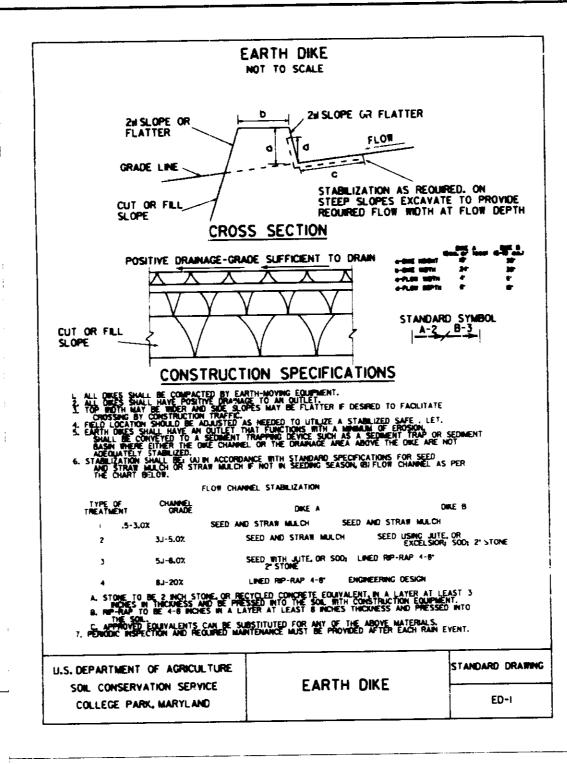
Device should be maintained throughout construction.

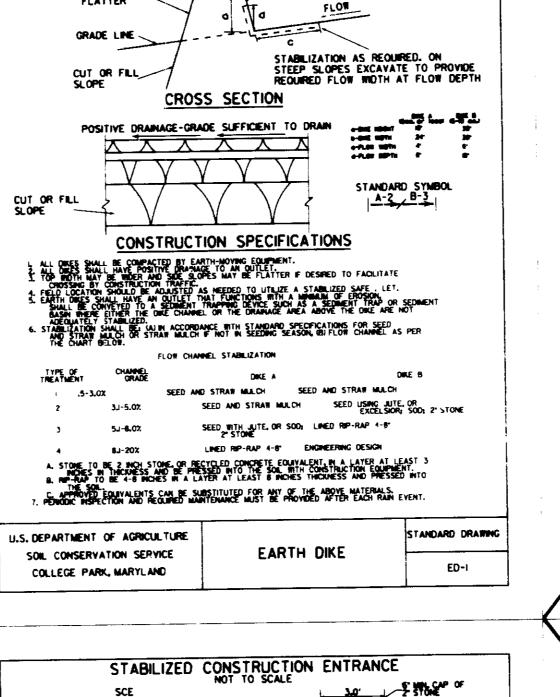
COLLEGE PARK, MARYLAND

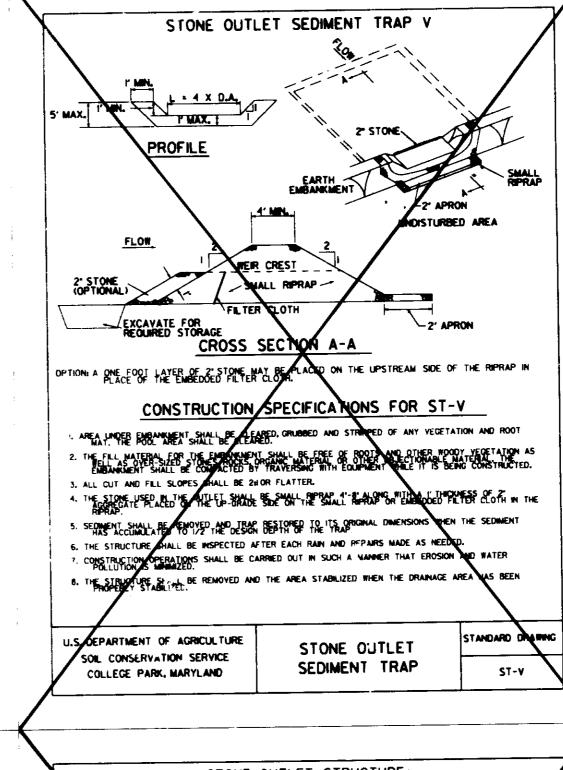
F PRIC PROTECTION : STANDARD DRAWING

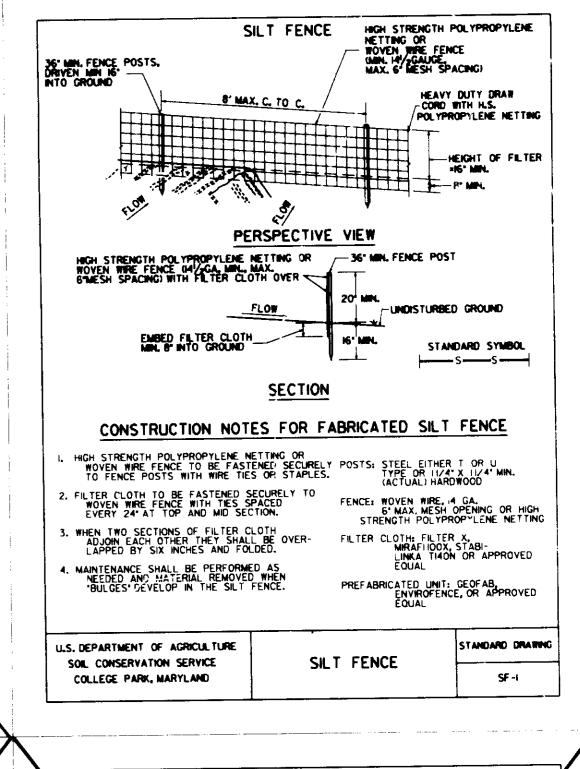
308 - 1

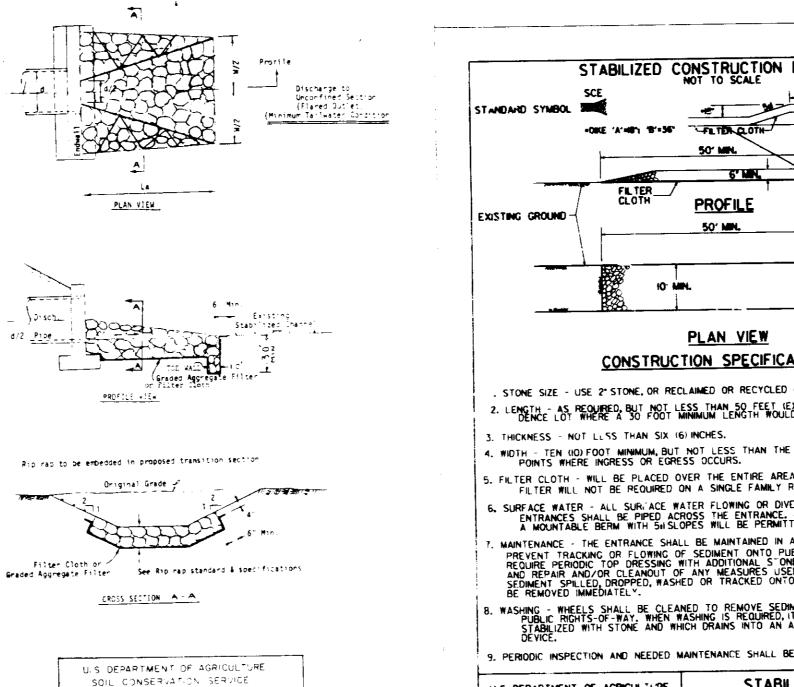
HIGHLY VISIBLE BARRIER FENCE

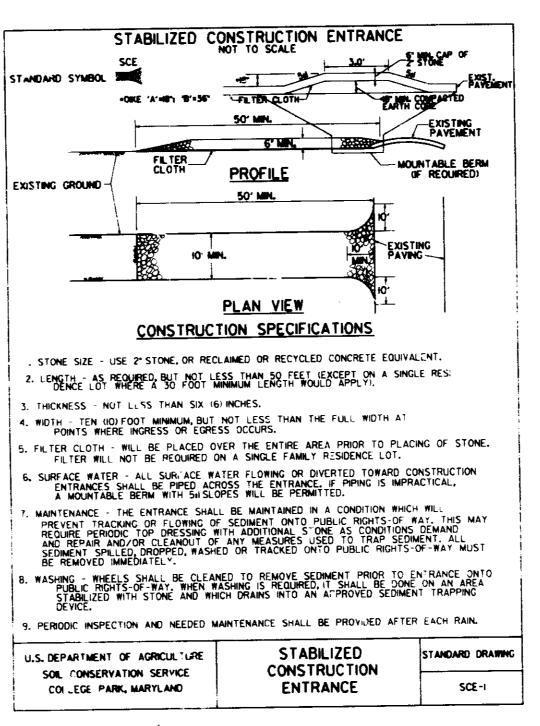


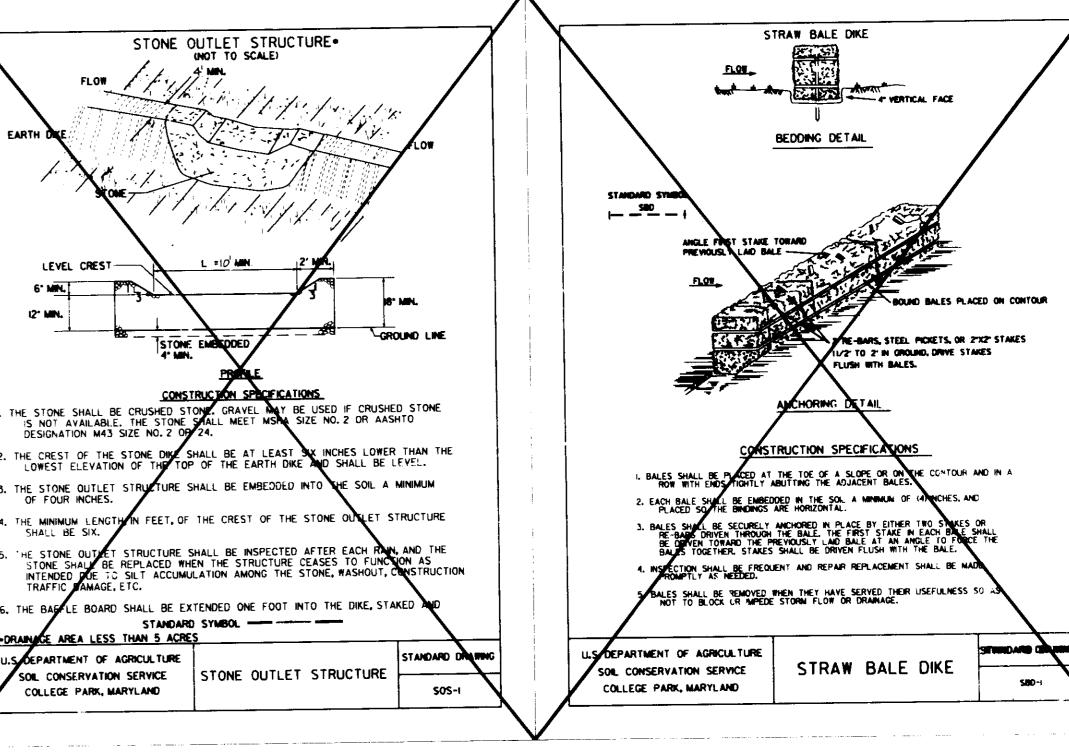


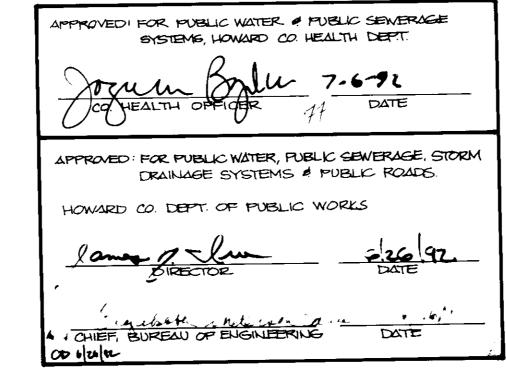


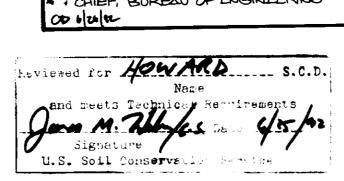








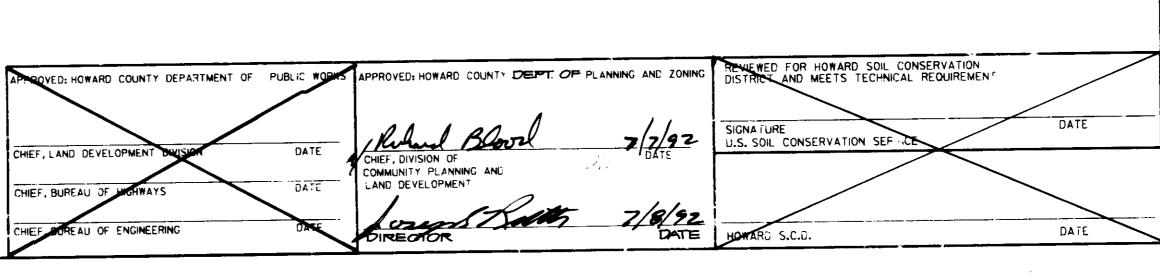




WELDSMENT PLANTS A PROPER

### CONSTRUCTION SEQUENCE

- 1. OBTAIN GRADING PERMIT 2. NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS 24
- HOURS PRIOR TO STARTING WOLK. INSTALL S.C.E. AT LOCATIONS SHOWN ON PLAN.
- 4. INSTALL PROTECTIVE HIGH VISIBILITY FENCING IN THE DESIGNATED
- LOCATIONS. 5. INSTALL SILT FENCING AROUND THE PROPOSED SEDIMENT BASINS.
- 6. CONSTRUCT SEPIMENT BASINS #1 AND #2.
- 7. CONSTRUCT EARTH DIKES AS SHOWN FOR PHASE ONE. OBTAIN APPROVAL OF INSTALLATION OF SEDIMENT CONTROL DEVICES FROM DEPT. OF INSPECTIONS & PERMITS PRICAR TO MASS GRADING THE
- 9. MASS GRADE SITE BEING CAREFULL NOT TO DISTURB THOSE AREAS
- PROTECTED BY HIGH VISIBILITY FENCING. 10. STABILIZE SITE UPON COMPLETION OF GRADING. BASING
- EARTH DIKES AND FENCING TO REMAIN IN PLACE.





DRAWN

WATER CODE

HARRIS, SMARIGA, MATZ, INC PLANNERS / ENGINEERS / SURVEYORS 184 CHURCH LANE, SUITE 188 BALTIMORE, MARYLAND 21200 (301)-486-1511

DESIGNED BOWLING BROOK FARMS

CADO/ PARCEL C SEDIMENT CONTROL CHECKED HOTES & DETAILS SIXTH ELECTION DISTRICT DATE 17192 HOWARD COUNTY, MARYLAND

> OWNER DEVELOPER JAMES F. KNOTT DEVELOPMENT CORPORATION 110 WEST ROAD, SUITE 203

TOWSON, MARYLAND 21204 (410) 321-1000 SECT./AREA

LOT/PARCEL \* SUBDIVISION NAME PARCEL C POWLING BROOKS FARMS TAX/ZONE MAP ELEC. DIST. CENSUS TR. PLAT \* OR L/F BLOCK \* ZONE 6063 6TH RSA-8 SEWER CODE

SOP. 92-102

SCALE

r=50°

DRAW!:G

7 100

JOB NO.

FILE NO.

40554

